

**ENGINEERING SERVICES
CODES COMMITTEE
REVIEW SUMMARY**

REFERENCES:

NFPA 101- Life Safety Code (2006 Edition)
NFPA 13, Standard for the Installation of Sprinkler Systems
NFPA 13D, Standard for the Installation of Sprinkler Systems in One- and Two-Family Dwellings and Manufactured Homes
NFPA 13R, Standard for the Installation of Sprinkler Systems in Residential Occupancies up to and Including Four Stories in Height
IHS Architect/Engineer (A/E) Design Guide, March 2005
Request for Fire Flow-Storage Decision (E-mail dated June 12, 2006, from Michael Weaver to DES Code Committee)

ISSUE:

There are differences of opinion as to which standard IHS facilities should utilize when determining fire flow for facility protection. What criteria are appropriate for determining required fire protection flows for IHS facilities (including staff quarters)?

BACKGROUND:

Currently, the Department of Health and Human Services, Indian Health Service, Division of Engineering Services *Architect/Engineer (A/E) Design Guide (March 2005 - page 8: General Design Requirements, Item C - Codes, Standards and Guidelines, Item #2a)* states:

“The design shall conform to the latest published edition of the nationally recognized codes, standards and guidelines”

- a. National Fire Codes (with the exception of NFPA 5000) as published by the National Fire Protection Association (NFPA). Emphasis is placed upon compliance with NFPA 101 Life Safety Code.”

NFPA-101 (paragraph 9.7) states the fire protection system shall be in accordance with NFPA 13, NFPA 13D or NFPA 13R where required by any section of the code.

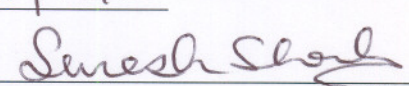
NFPA 13 – 2002 (Chapter 11) provides all necessary design approaches and appropriate fire flow calculations based on the building’s hazard classification.

NFPA 13D and NFPA 13R provide design and water supply requirements for one- and two-family dwellings, and other residential occupancies.

DISCUSSION / RECOMMENDATION:

It was agreed to reaffirm the current A/E Design Guide directive to utilize NFPA 101 requirements in determining required fire protection flows for IHS facilities (including staff quarters). Determination of fire flow requirements for all facilities should be made as directed by NFPA 101, using the appropriate installation standard - NFPA 13, NFPA 13D or NFPA13R – as required.

SIGNATURES:

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WA # 20802☒ Concur ☐ Do Not ConcurDATE: 6/16/06NAME: Pedro Valverde, P.E.
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Chairperson

Suresh Shah, P.E.,
OK # 13259

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Date: July 18, 2006

To: John Bausch, P.E.
Division of Engineering Services - Seattle

From: Acting Director DES-Dallas and DES Director - Seattle

Subject: Code Committee Summary on Fire Flow Design Criteria for IHS Facilities

Please find attached the Division of Engineering Services (DES) Codes Committee Review Summary addressing the referenced design criteria. The Committee determined sufficient guidance for design of fire protection flows for IHS facilities exists in NFPA 101 with NFPA 13 as the appropriate installation standard.

Having reviewed the discussion of the committee, we concur with the interpretation. If you have any questions regarding the decision, please do not hesitate to contact either of us at your convenience.

Tommy J. Bowman, R.A.
DES-Dallas

Kenneth R. Harper, P.E.
DES-Seattle

Attachment

cc: Suresh Shah, DES-D
Hank Paine, DES-S
Dwight Packer, DES-D
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Pedro Valverde, DES-S